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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

NGUYEN, QUANG N

ART UNIT	PAPER NUMBER
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2141

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/578,027

Applicant(s)

COHEN ET AL.

Examiner

Quang N. Nguyen

Art Unit

2141

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 May 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Handwritten signature/initials

Detailed Action

1. This Office Action is in response to the Amendment filed on 07/01/2005. Claims 1, 4, 9, 11-16 and 29 have been amended. Claims 1-30 remain for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-2, 4-17, 19-25, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beranek et al. (US 6,226,642), herein after referred as Beranek, in view of Kavner (US 6,366,947).**

4. As per claims 1, 11-16, and 29-30, Beranek teaches a system and method of optimizing retrieval of electronic documents, comprising:

receiving and routing network packets (*the caching proxy server 325 of Fig. 12 receives and routes HTTP requests and responses between clients and servers*);

extracting a first electronic document from the network packets (*the caching proxy server 225/325 receives/extracts a Web document from the HTTP response to the client HTTP request*) (Beranek, Fig. 12, C3: L19-20 and C10: L21-23);

creating and storing on a cache server a modified copy of the first electronic document in accordance with one or more substitution policies (*a filter mechanism 229 of the caching proxy server 225 is used to add links, to modify links, to change URLs or display other URLs, embedded files, etc., according to some given protocol or filter property, i.e., in accordance with substitution policies*) (Beranek, C3: L19-30); and

delivering the modified copy of the electronic document in response to all subsequent client requests for the first electronic document (*after the Web page has been modified, the modified page is preferably stored back in the cache in order that it maybe reused if and when the user desires to revisit the page at a subsequent time*) (Beranek, C12: L31-38).

However, Beranek does not explicitly teach identifying one or more symbolic references to other electronic documents within the first electronic document, determining and substituting a network address of each of the other electronic documents corresponding to each of the symbolic references.

Kavner teaches a system and method for accelerating network interaction using intelligent cacheing and intelligent fetching wherein a number of hypertext links such as buttons, certain words or images (*i.e., symbolic references*), associated with additional information (*i.e., associated with other electronic documents*) were identified by issuing the software call "GET HOST BY NAME" to the original Winsock library to retrieve the

TCP/IP address of a host name from the network and once received, the retrieved TCP/IP address is stored in the cache (*i.e., determining/substituting and storing a network address of each of the other electronic documents corresponding to each of the symbolic references*) (Kavner, C12:L44 – C13:L25 and C16: L32-58).

Since Beranek teaches that URLs in a document can be modified/substituted (*by adding and modifying hyperlinks, changing URLs or displaying other URLs, embedded files, etc., according to some given protocol or filter property, i.e., in accordance with substitution policies*), it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Beranek and Kavner to include identifying one or more symbolic references to other electronic documents within the first electronic document, determining and substituting a network address of each of the other electronic documents corresponding to each of the symbolic references since such methods were conventionally employed in the art to allow the system to identify, retrieve, and store the network TCP/IP addresses (URLs) corresponding to the hypertext links (*e.g., symbolic references*) in the cache, to pre-load hypertext links in order to more speedily retrieve the information which the user is likely to require in a subsequent interaction (Kavner, C3: L31-38).

5. As per claim 2 and 17, Beranek-Kavner teaches the invention of claim 1, but does not explicitly teach delivering an unmodified copy of the first electronic document in response to a client request for the first electronic document, concurrently while performing the steps of identifying, determining, creating and storing.

Kavner teaches sending a copy of the document (*unmodified*) in the cache concurrently while determining if a document should be updated (*modified*) (Kavner, C4: L44-56).

It would have been obvious to one of ordinary skill in the art at the time of the invention to include delivering an unmodified copy of the first electronic document in response to a client request for the first electronic document, concurrently while modifying the document, as taught by Kavner, in the modified Beranek invention, because the user would get the benefit of seeing the web page immediately while the changed resources are updated in the background (Kavner, C4: L56-59).

6. As per claims 4 and 19, Beranek-Kavner teaches the invention of claim 1, further comprising storing the modified copy in cache storage and delivering the modified copy from the cache in response to subsequent client requests (Beranek, C12: L31-38).

7. As per claims 5 and 20, Beranek-Kavner teaches the invention of claim 4, but does not explicitly teach retrieving and storing in the cache storage, each of the other electronic documents and carrying out the steps of identifying, determining, creating and storing, and delivering for each of the other documents in the cache storage, before or at the same time as receiving one or more client requests for the other electronic documents.

Kavner teaches fetching all links associated with a page presently being viewed and storing them in the cache (Kavner, C5: L58-63).

It would have been obvious to one of ordinary skill in the art at the time of the invention to include the pre-fetching of links, as taught by Kavner, in the modified Beranek invention (*that automatically performs the steps of identifying, determining, creating and storing, and delivering all received documents*) because when a user eventually selects one of the links the page can be displayed immediately instead of waiting for it to be downloaded, as taught by Kavner (C5: L54-58).

8. As per claims 6 and 21, Beranek-Kavner teaches the invention of claim 1, but does not explicitly teach determining that one or more symbolic references identifies a prohibited network resource and substituting a network address of a predetermined network resource for the symbolic references to the prohibited network resource.

Kavner teaches a content filter or blocking feature that replaces content in a web page with other content, where the content can be any form of identifiable information (*i.e., prohibited network resources*) (Kavner, C19: L22-36).

It would have been obvious to one of ordinary skill in the art at the time of the invention to include replacing prohibited symbolic references with predetermined content, as taught by Kavner, and using the network address replacement method described in the modified Beranek invention, because substituting predetermined content for prohibited content would prevent the user from viewing unauthorized or offensive material.

9. As per claims 7 and 22, Beranek-Kavner teaches the invention of claim 6, but does not explicitly teach the predetermined network resource being a predefined electronic document that comprises a message specifying that access to the prohibited network resource is prohibited.

“Official Notice” is taken that both the concept and advantages for providing a predefined document stating access is prohibited are well known and expected in the art (*HTTP 401/403 error messages, ad blockers*).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have a predetermined network resource being a predefined electronic document that comprises a message specifying that access to the prohibited network resource is prohibited in the modified Beranek invention because the end user would be able to see why a page is not being displayed correctly.

10. As per claims 8-10 and 23-25, Beranek-Kavner teaches the invention of claim 1, wherein the electronic document comprising an HTML document and wherein the symbolic references comprise: only embedded URLs in the HTML document; only selected URLs in the HTML document as determined according to a substitution policy; or all URLs in the HTML document (*re-formatting the web page by adding links, modifying links, changing URLs or displaying other URLs, embedded files, etc., according to some given protocol or filter property, i.e., in accordance with substitution policies*) (Beranek, C3: L19-30).

11. As per claim 28, Beranek-Kavner teaches the invention of claim 1. Furthermore, Beranek-Kavner teaches the electronic document comprising an HTML document and wherein the symbolic references comprise hostnames in embedded URL's in the HTML document and hostnames in hyperlinks in the HTML document (Beranek, C3: L25-31).

12. Claims 3, 18, and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beranek et al. (6,226,642) in view of Kavner (6,366,947), as applied to claims 1 and 16 above, and further in view of Applicant's Admitted Prior Art (AAPA).

13. As per claims 3, 18, and 26-27, Beranek discloses the claimed invention modified by Kavner as described above. However, the modified Beranek invention does not explicitly teach determining that a plurality of symbolic references identify one particular host name and substituting a different network address in each of the symbolic references that identify the particular host name, wherein each different network address is associated with one of a plurality of replicated servers.

AAPA teaches providing different IP addresses for successive requests for the same host name, wherein each IP address identifies a replica located in a different geographic region and the local server is either chosen by the end user or provided

automatically such as automatic selection of the closest replica (*i.e., the selected IP address is chosen/substituted in accordance with one or more substitution policies*) (Specification, page 2, lines 1-7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have a host name's different IP addresses taught by the applicant substituted for the same host name during the substation process in the modified Beranek invention because more processor power would be available on each server to deliver content, as taught by the AAPA (Specification, page 1, lines 24-27).

Response to Arguments

14. In the remarks, applicant argued in substance that

(A) Prior Arts do not teach a system that receives and routes network packets and extracts a first electronic document from the network packets as claimed in claim 1.

As to point (A), **Beranek** teaches receiving and routing network packets (*the caching proxy server 325 of Fig. 12 receives and routes HTTP requests and responses between clients and servers*); and extracting a first electronic document from the network packets (*the caching proxy server 225/325 receives/extracts a Web document from the HTTP response to the client HTTP request*) (**Beranek, Fig. 12, C3: L19-20 and C10: L21-23**).

(B) Prior Arts do not teach or disclose a system that creates and stores a modified copy of the first electronic document in which the network address is substituted for each corresponding symbolic reference in accordance with one or more substitution policies as claimed in claim 1.

As to point (B), **Beranek** teaches creating and storing on a cache server a modified copy of the first electronic document in accordance with one or more substitution policies (*a filter mechanism 229 of the caching proxy server 225 is used to add links, to modify links, to change URLs or display other URLs, embedded files, etc., according to some given protocol or filter property, i.e., in accordance with substitution policies*) (**Beranek, C3: L19-30, C11: L3-11 and C12: L31-38**); and

Kavner teaches a system and method for accelerating network interaction using intelligent caching and intelligent fetching wherein a number of hypertext links such as buttons, certain words or images (*i.e., symbolic references*), associated with additional information (*i.e., associated with other electronic documents*) were identified by issuing the software call "GET HOST BY NAME" to the original Winsock library to retrieve the TCP/IP address of a host name from the network and once received, the retrieved TCP/IP address is stored in the cache (*i.e., determining/substituting and storing a network address of each of the other electronic documents corresponding to each of the symbolic references*) (**Kavner, C12:L44 – C13:L25 and C16: L32-58**).

Since **Beranek** teaches that URLs in a document can be modified/substituted (*by adding and modifying hyperlinks, changing URLs or displaying other URLs, embedded files, etc., according to some given protocol or filter property, i.e., in accordance with substitution policies*), it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of **Beranek** and **Kavner** to include identifying one or more symbolic references to other electronic documents within the first electronic document, determining and substituting a network address of each of the other electronic documents corresponding to each of the symbolic references since such methods were conventionally employed in the art to allow the system to identify, retrieve, and store the network TCP/IP addresses (URLs) corresponding to the hypertext links (*e.g., symbolic references*) in the cache, to pre-load hypertext links in order to more speedily retrieve the information which the user is likely to require in a subsequent interaction (**Kavner, C3: L31-38**).

15. Applicant's arguments as well as request for reconsideration filed on 07/01/2005 have been fully considered but they are not deemed to be persuasive.


16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Nguyen whose telephone number is (571) 272-3886.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's SPE, Rupal Dharia, can be reached at (571) 272-3880. The fax phone number for the organization is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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SUPERVISORY PATENT EXAMINER